

**INVASIVE SPECIES CONTROL PROJECTS (R1 SMALL GRANTS)
FY 2013 FINAL REPORT**

Project Title: Shiny Geranium and Fragrant Water Lily

Station: Ridgefield NWR

Contact Person: Alex Chmielewski

Project Description: The proposed project is a part of the Ridgefield NWR invasive species management program, and will help achieve goals and priority habitats identified in the Refuge CCP. This project would provide funding for an amphibious all-terrain vehicle that would be used to access populations of shiny geranium (a Class A Washington species) and fragrant water lily. The project will survey approximately 250 acres as part of our Early Detection/Rapid Response (ED/RR) efforts. The project will focus treatment on eradicating these 2 key species which have the greatest potential for eradication as well as any occurrences of purple loosestrife and yellow flag iris that are encountered during surveys. Additional secondary species will be treated as resources permit within focal areas.

Invasive Species Targeted: Fragrant water lily and yellow flag iris (FY2013); and fragrant water lily, yellow flag iris and shiny geranium (FY2014)

Project Completion Date or Estimated Completion Date: August 2014

Project Results: Project funds were used to purchase and operate an amphibious vehicle (received in August 2013) to access shallowly flooded and moist soil areas around Widgeon Lake and Middle Lake within the Ridgefield NWR. Twelve acres of Middle Lake (Carty Unit) were spot-treated with glyphosate for fragrant water lily on 3 separate occasions in FY2013. Control was achieved on approximately 2 acres of Middle Lake. The remaining 10 acres will be re-treated in 2014. Approximately 180 acres were searched for yellow flag iris and purple loosestrife in and around Widgeon Lake and Canvasback Lake (Bachelor Island Unit) and 2 acres were successfully treated. See attached map. The effort also generated 44 hours of volunteer time for the lily control iris control.

Shiny geranium is a winter annual and will be treated during suitable weather between Dec 2013 and May 2014 in the Carty and Bachelor Island Units.

Number of Acres Treated: 14

Number of Acres Inventoried and/or Mapped: 212

Number of Acres Restored: 2

Total Grant Amount: \$18,000

Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment/Supplies	\$18,000	100
Chemical		
Biocontrol Agents		
Travel		
Biotech/Contractor Salary		
Restoration Materials		
Other (Describe)		
TOTAL	\$18,000	100

**Invasive Control Project Sites 2013
Ridgefield NWR**

